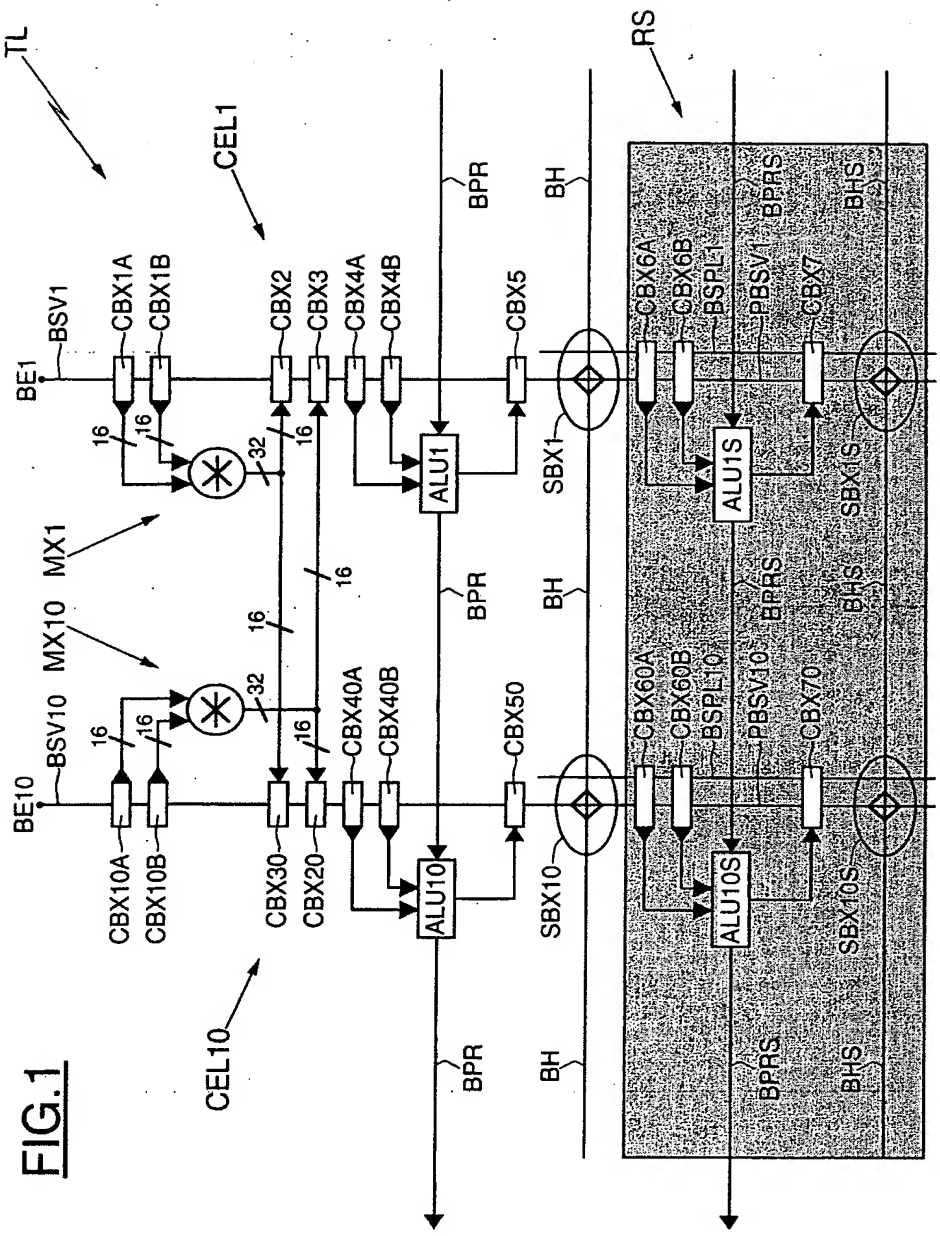



FIG.1

BEST AVAILABLE COPY

FIG.2

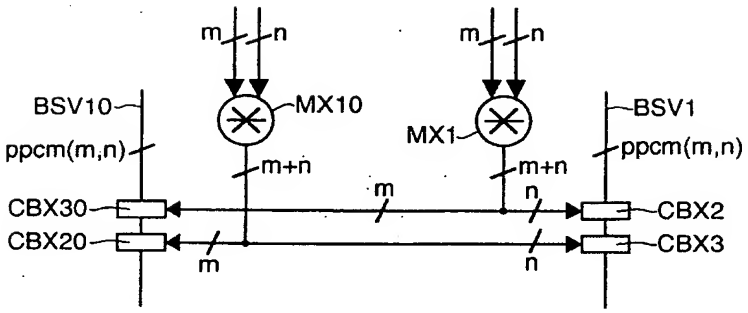

m
n
m
n
BSV10
MX10
MX1
BSV1
ppcm(m,n)
m+n
m+n
ppcm(m,n)
m
n
CBX30
CBX2
CBX20
CBX3
m
n

FIG.3

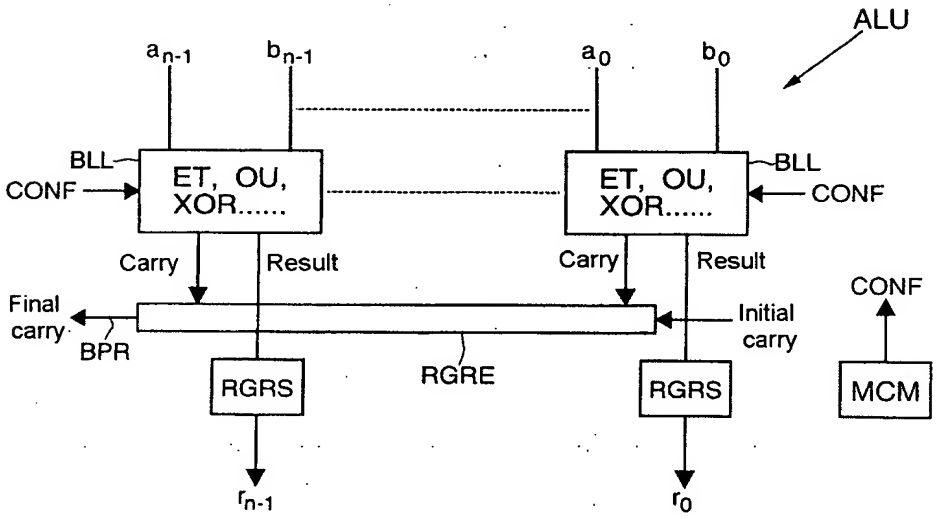

ALU
$a_{n-1}$
$b_{n-1}$
$a_0$
$b_0$
BLL
CONF
ET, OU, XOR.....
ET, OU, XOR.....
BLL
CONF
Carry
Result
Carry
Result
CONF
Final carry
BPR
Initial carry
RGRS
RGRE
RGRS
MCM
$r_{n-1}$
$r_0$

FIG.4

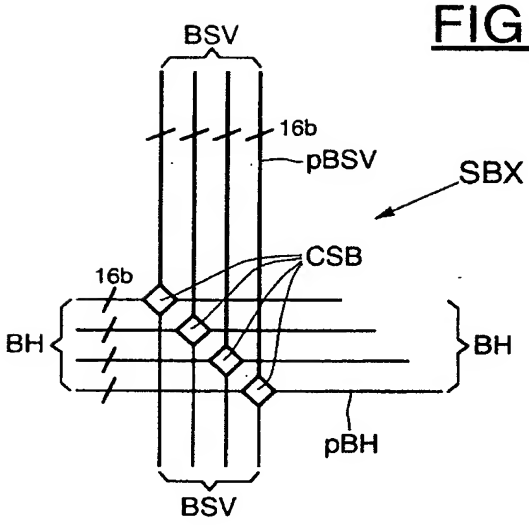

BSV
16b
pBSV
SBX
CSB
16b
BH
BH
pBH
BSV

FIG.5

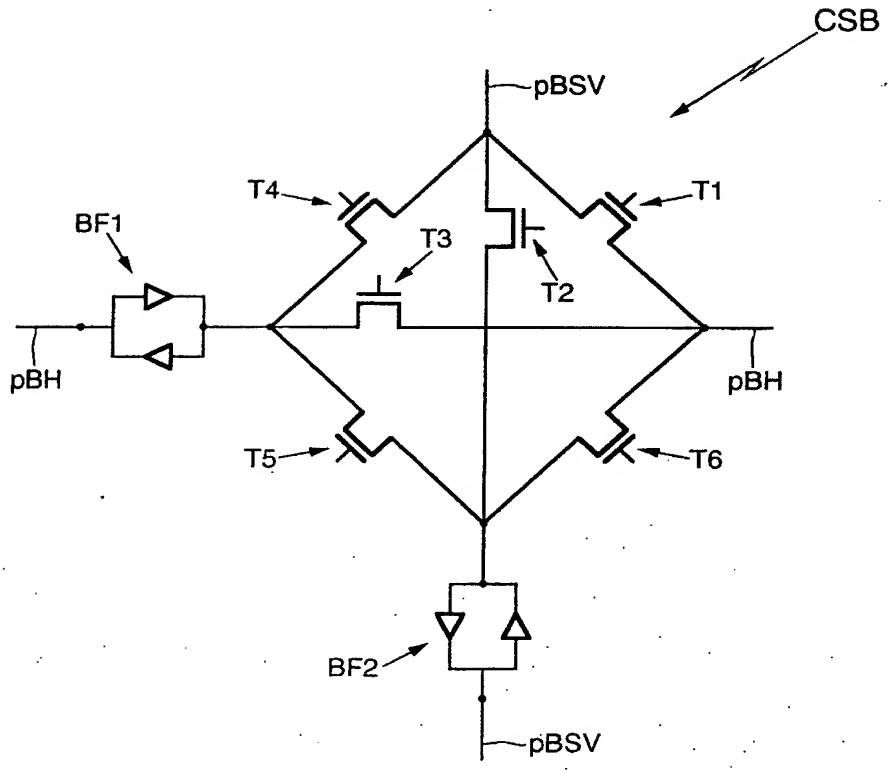

CSB
pBSV
T4
T1
BF1
T3
T2
pBH
pBH
T5
T6
BF2
pBSV

FIG.6

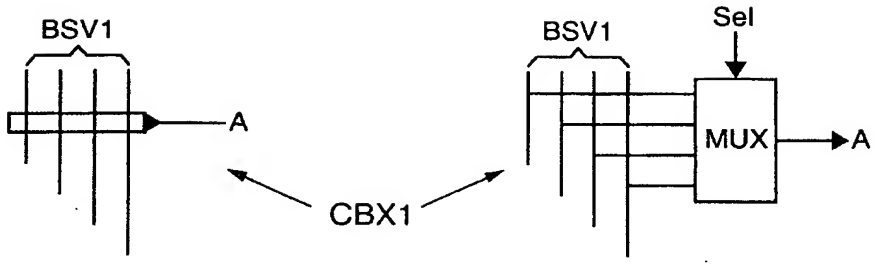
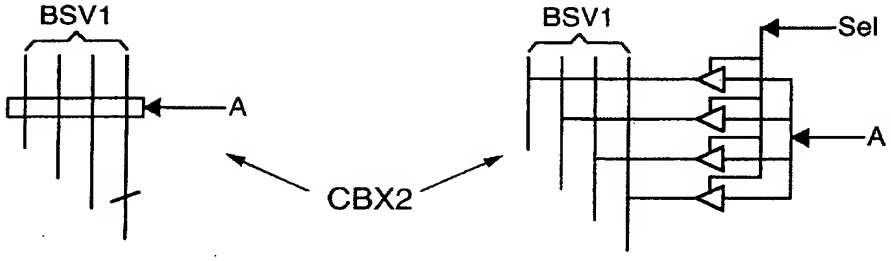



FIG.7



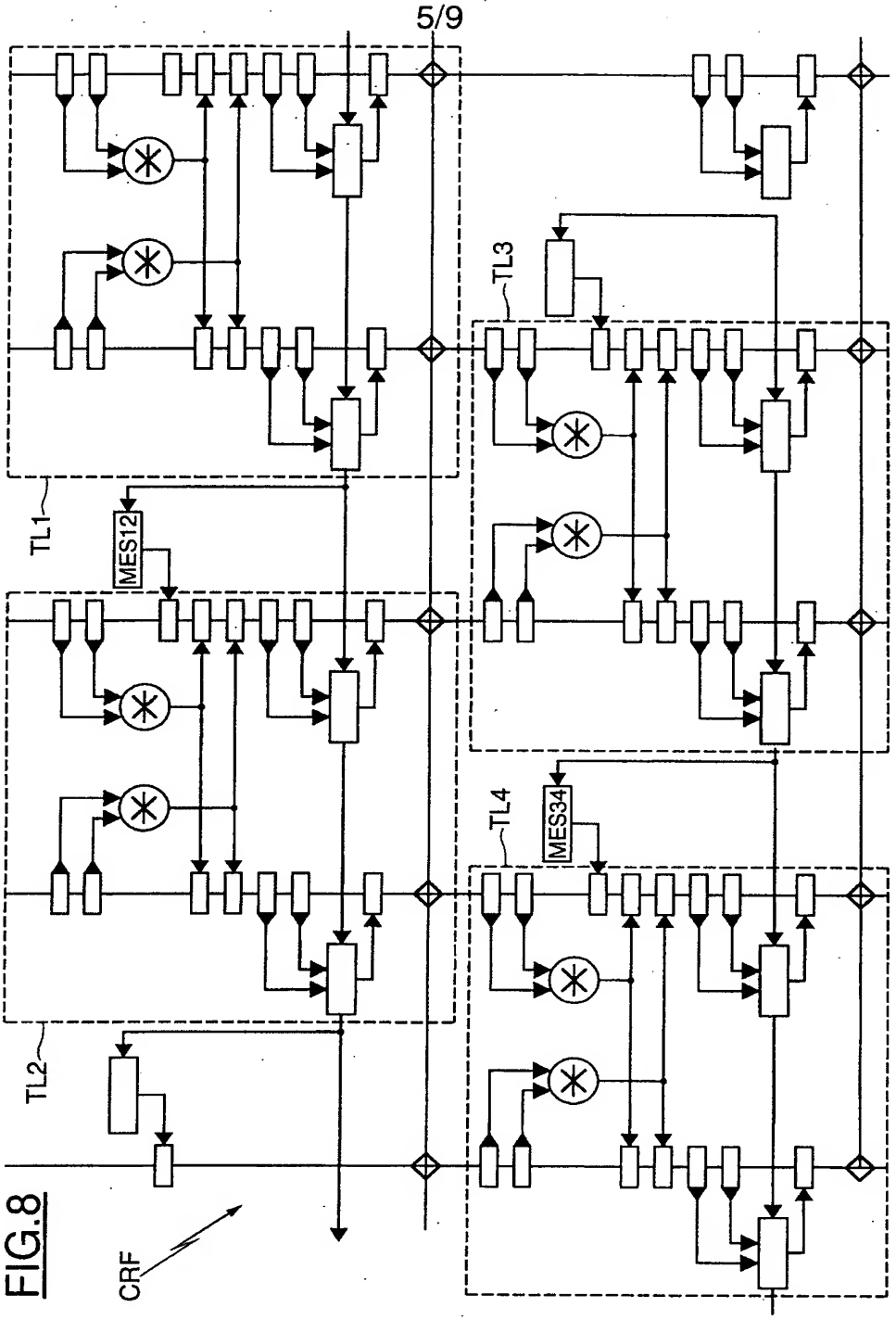



FIG.8

FIG.9

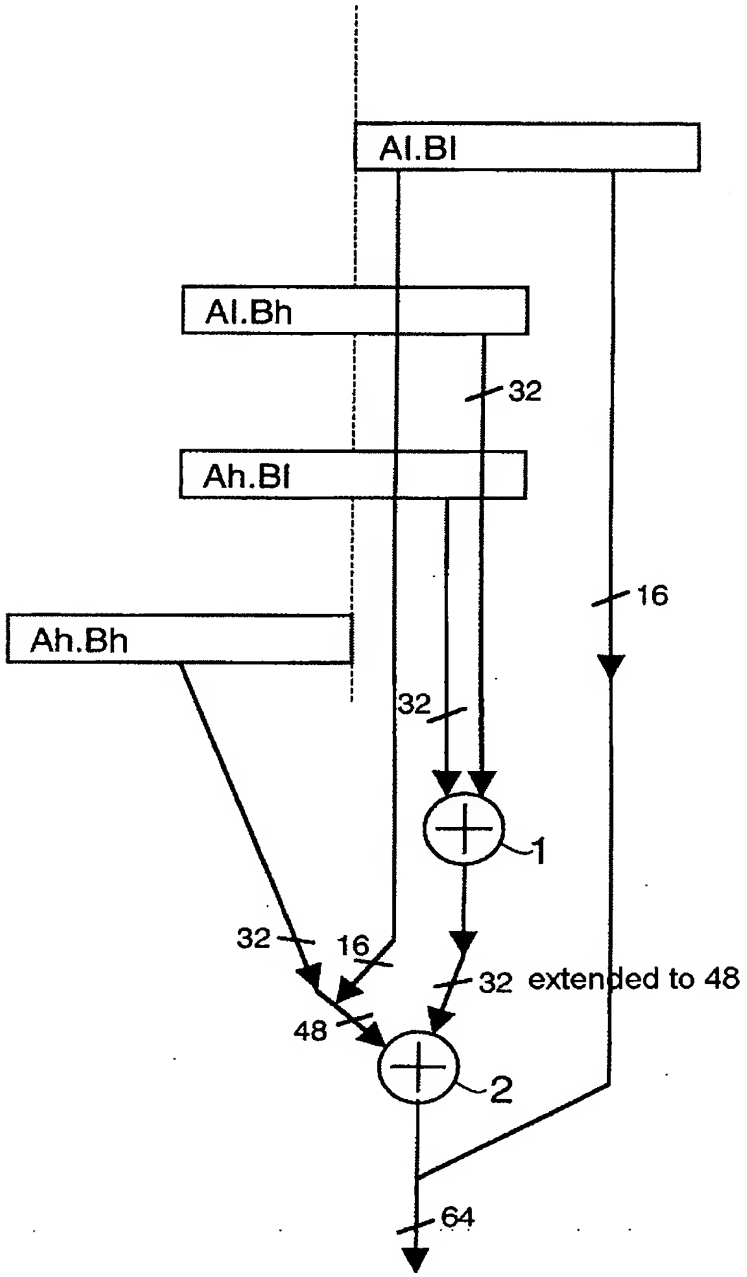


FIG.10

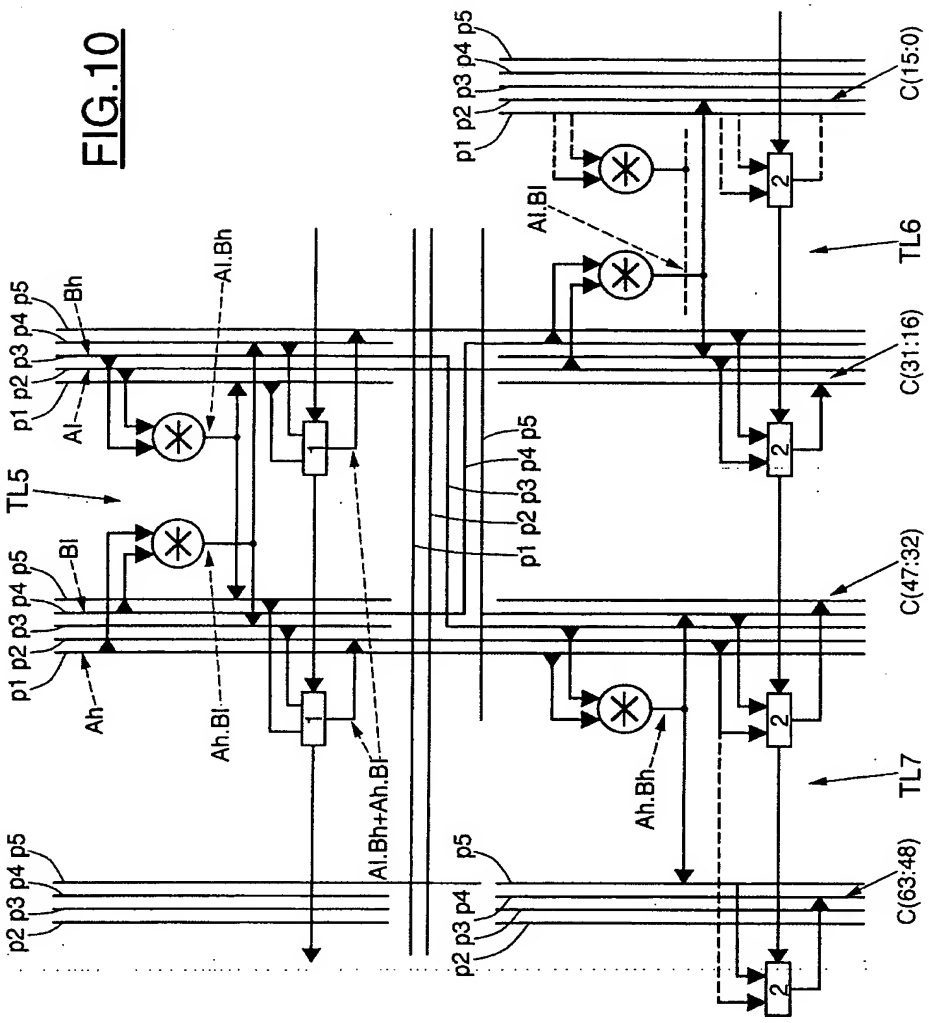
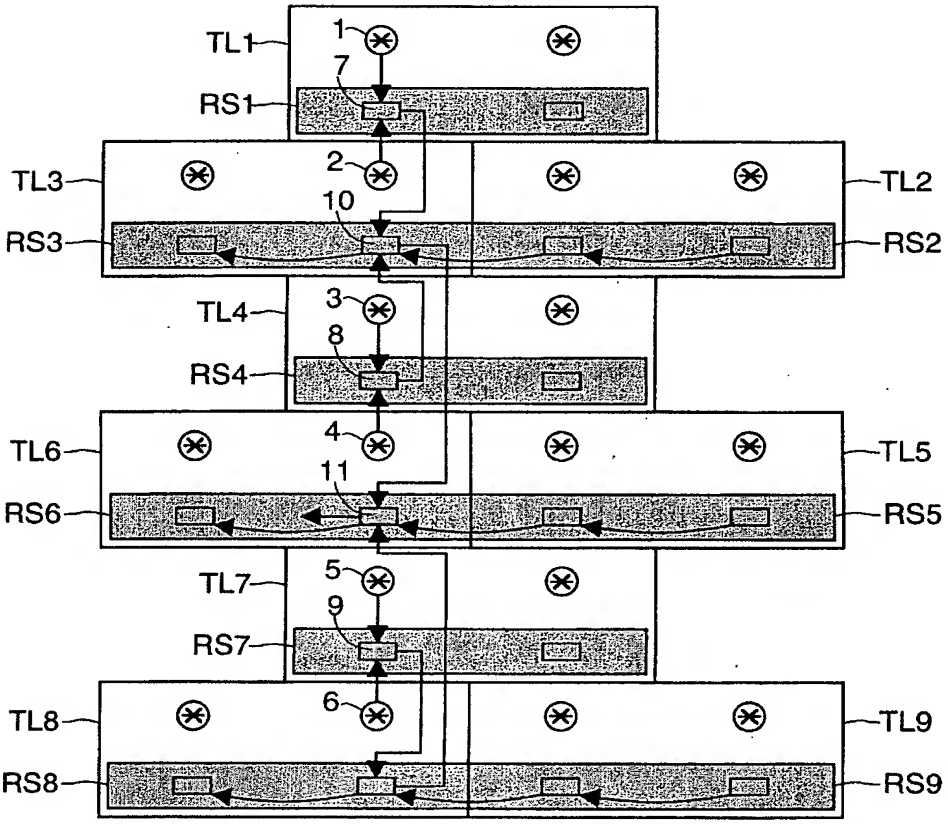

p1 p2 p3 p4 p5
C(15:0)
Al.Bl
TL6
C(31:16)
Al.Bh
Bh
Al
TL5
Bl
C(47:32)
Ah
Ah.Bl
Al.Bh+Ah.Bf
Ah.Bh
TL7
C(63:48)
p2 p3 p4 p5
p5
p4
1
2

FIG.11




BEST AVAILABLE COPY

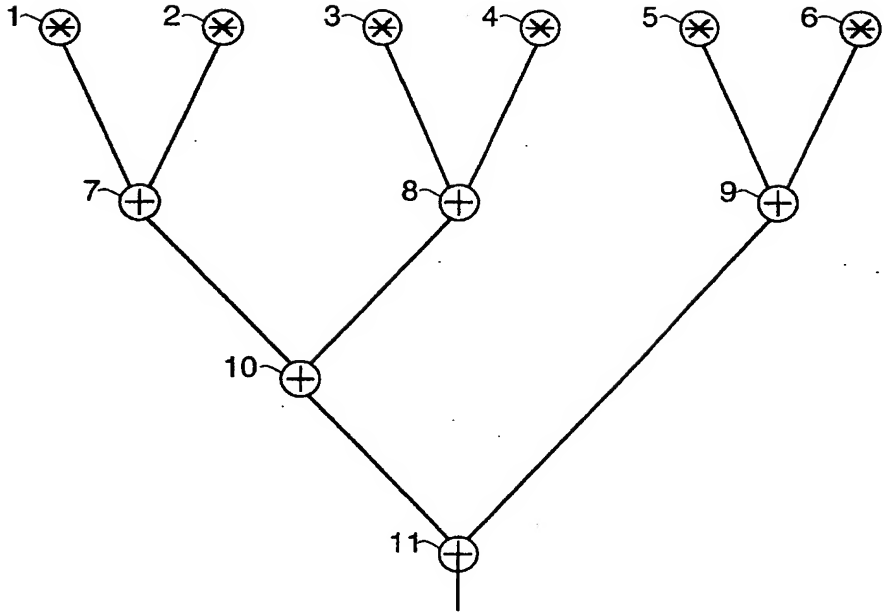



FIG.12